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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,480	12/30/2004	Junghee Ryu	GK-US045298	2848
	7590 12/23/200 OUNSELORS, LLP		EXAMINER	
1233 20TH STREET, NW, SUITE 700 WASHINGTON, DC 20036-2680			TRUVAN, LEYNNA THANH	
			ART UNIT	PAPER NUMBER
			2435	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/519,480	RYU, JUNGHEE		
Office Action Summary	Examiner	Art Unit		
	Leynna T. Truvan	2135		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>30 December</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) 4-12 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on is/are: a) ☐ access applicant may not request that any objection to the or	election requirement. c. epted or b) objected to by the E			
Replacement drawing sheet(s) including the correcti		• •		
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Oπice	Action or form PTO-152.		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/30/04.	• • • • • • • • • • • • • • • • • • • •	(PTO-413) ite		

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DETAILED ACTION

1. Claims 1-4 was elected by applicant without traverse.

Claims 5-17 are now cancelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rub, et al. (US 6,404,573) in view of Lo (US 5,408,424).

As per claim 1:

Rub discloses an authentication time-variant code which can be read out by a machine, said time-variant code being one-dimensional and two-dimensional code (col.1, lines 15-20 and col.10, lines 44-55), wherein shape, position, tone, brightness of code pattern or combination of the shape, position, tone, brightness of the code pattern vary according to time and wherein a predetermined information is contained in code pattern variation. (col.9, lines 31-45 and col.15, lines 30-48; time-varying as the claimed time-variant)

However, Rub does not include two dimensional code.

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Lo discloses an invention for processing a discrete-time measurement process for the purpose of estimating a discrete-time signal process. A vector is an element of finite dimensional Euclidean space. A scalar is one dimensional vector and a vector valued variable is either a single dimensional or a multiple dimensional variable. A sequence index is called time (col.7, lines 15-25 and col.39, lines 1-11).

Therefore, it would have been obvious for a person of ordinary skills in the art to combine Rub with Lo to teach time variant code being one dimensional and two dimensional code for this is processing discrete time measurement which is vector-valued function of time describing or affecting the time-variant property of the signal and measurement process (Lo - col.7, lines 15-25 and col.39, lines 1-11).

As per claim 2: See Rub on col.2, lines 35-41; discloses the authentication time-variant code of claim 1, wherein a limited numbers of static patterns vary randomly. As per claim 3: See Rub on col.10, lines 8-15; discloses the authentication time-variant code of claim 1, wherein static patterns vary with order as time goes.

As per claim 4: See Rub on col.10, lines 1-7; discloses the authentication time-variant code of claim 1, using change of time-variation timing when static patterns vary.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leynna T. Truvan whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. T. T./ Examiner, Art Unit 2135 /Kimyen Vu/ Supervisory Patent Examiner, Art Unit 2435